lista	tutoniat	6
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1. Fie f: 122-5/R, f(xy)= x3y+ x2y3+2xy. a) beterminati derivatele partiale de ordinal 2 ale luit. P) 97(1/5) = 5. 1 95 7(1/5)=5 (1 Let polinomel Taylor de ordinal doi asocial fot & fin pol(1/2) (i.e Tz (4y)) -tree asociat fet & in pot(12) (i.s. T3(4y)) 2. Let de extrem local zi precitati natura los: 2) f: (0, xd2->) R, f(x,y) = x + g + xy le 1 f=12 >18 fcxy, 21=x2+g+32 -xy+y2+242 () f:16, - 76 7(x1, 7) = x5+3 2 + 5+5 - 5 x 2 + 5 x 5 3. a) An ca ec (2-44) -3(x24/2)-2=0 def sutr-o ver a pot (1,-1) fct implicità y=y(x) fidet y'(n). lu An cà ec 1244e2=n def într-e vec a pot (1,0,1) fot implicité 2=284 gidet 22(10), 22(10), d2(10). 4. Let pot de extrem local givalorile extreme a legatori: a) file =>18, f(xy)=x2+y2-x-y, log = x-y=1 b) f: 1221/4 f(xyz)=x+3y+2, lg:x2+y2+2=14

5.01 Fie f:12 3/F, frey, 21=y+z. Determinatio punctele de extrem global ale function f/B(0,3)
(0,00)

le) Fio f: 1/2-1/2 d(xy/2 or x2x3xyxy2, determination valorile extreme ale function of B(0,1)

c) Punctelodo extrem global si valorile extreme:

f. 1/2 = SIR, f(xy) = -x2+3xy-y2, f/B(Op),1)

d) f: 1/2 > 1R, f(xy) = 4x2-xy+y2, f/B(Op),1)-